of their acceptance and any other program specific requirements such as physicals, immunizations, technical standards, etc. Continuance in the health sciences majors requires strong academic achievement, including successful demonstration of knowledge and use of practical and critical thinking skills in laboratory and in clinical rotations. Criminal background checks may be required as specified in course syllabi. Any student deemed unacceptable for clinical rotation due to results from a criminal background check will not be allowed to complete the program of study.

The College of Health Sciences has developed graduate programs in the health-related professions that prepare individuals for practice, teaching, research, or administration in health-care delivery to meet the needs of the region, the state, and the nation. These programs include Master of Science degrees in community health and dental hygiene, the Master of Science in Nursing degree, the Master of Public Health degree, the Doctor of Physical Therapy degree, the Doctor of Nursing Practice degree, and the Ph.D. in health services research.

Certificate in Global Health

https://www.odu.edu/hs/centers/globalhealth

Muge Akpinar-Elci, MD, MPH, Program Director

Global Health aims to show us the big picture. Mistakenly, people assume that the target of “Global Health” involves mainly tackling problems in the developing world. Diseases and health problems do not recognize borders. All countries can learn from the experiences of other countries. Neglecting to address health problems in a global scale may affect people’s health, well-being and national security around the world including in developed countries such as the United States.

This competency-based certificate program aims to provide comprehensive training on Global Health. Additionally, this certification program embraces a multidisciplinary focus. The Global Health Certificate is designed as an online program for professionals who are practicing or who plan to practice in a worldwide setting. Graduates of the Global Health Certificate can expect to find employment in a variety of fields including health-related governmental/non-governmental organizations, university research programs, international healthcare consultancies, and multinational corporations (Education Advisory Board, 2013). The certificate requires three core courses (3 credit hours each), two electives (2 credit hours each) and a practicum or a research paper (2 credit hours) for a total fifteen (15) credits. A maximum of 6 credit hours from graduate level courses may be transferred. Admission to the certificate program requires a bachelor’s degree (or the equivalent).

<table>
<thead>
<tr>
<th>Required Core Courses</th>
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<tbody>
<tr>
<td>HLSC 746 Epidemiology</td>
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<tr>
<td>HLSC 776 Global Health</td>
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<tr>
<td>HLSC 702 Health Management</td>
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<tr>
<td>Electives (Select two)</td>
<td>4</td>
</tr>
<tr>
<td>HLSC 778 Global Environmental Health</td>
<td></td>
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<tr>
<td>HLSC 780 Monitoring &amp; Evaluating Global Health Programs</td>
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<tr>
<td>HLSC 782 One Health, One Medicine</td>
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<tr>
<td>HLSC 784 Key Competencies for Co-creating Sustainable Futures</td>
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<tr>
<td>HLSC 785 Issues and Opportunities in Global Health Research</td>
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<tr>
<td>Research paper or Practicum (Select one)</td>
<td>2</td>
</tr>
<tr>
<td>HLSC 798 Supervised Research</td>
<td></td>
</tr>
<tr>
<td>HLSC 768 Practicum in Global Health</td>
<td></td>
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<tr>
<td>NOTE: A maximum of 6 credit hours from graduate level courses may be transferred.</td>
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</tbody>
</table>

Total Hours 15

Ph.D. in Health Services Research

757-683-4960
http://www.odu.edu/academics/programs/doctoral/health-services-research

Dr. Bonnie Van Lunen, Graduate Program Director

The primary mission of the Ph.D. in health services research is to develop leaders and problem solvers whose professional services will improve the health of the population not only in Eastern Virginia but also statewide, nationally, and internationally. Health services researchers examine health care quality and effectiveness, patient outcomes, access to care, health care costs and financing, primary and managed care, new technologies, and other critical topics. Health services researchers pursue careers in many settings, including academia, professional organizations, research centers, health policy groups, clinical settings, and in federal, state, and local agencies.

The goals of the program are to enable students to conduct and interpret health services research, to formulate and analyze public health policy, to lead programs and organizations that address the health care needs of populations and to work directly with community members to empower them to be a part of the policy formulation process. In accomplishing these goals students in the program will develop the critical skills necessary to assemble and integrate qualitative and quantitative evidence applicable to problem formulation and policy analysis. They will be able to design viable programs, manage resources, and measure the effectiveness of service delivery to populations. Students will be awarded the Ph.D. in health services research after the completion of all University and program requirements for graduate degrees.

Requirements for Admission

Students are admitted to the Ph.D. program during the fall term only. Applications for admission are reviewed by the Ph.D. in Health Services Research Program admissions committee which includes the graduate program director. To qualify for admission, an applicant must meet the general University admission requirements at the graduate level as well as specific program requirements, including:

1. A completed master’s degree from a program that is accredited by a specialized accrediting agency; degrees such as M.D., J.D., and D.D.S. are also acceptable;
2. A minimum acceptable grade point average of 3.25 (on a 4.0 scale) overall for the master’s degree;
3. Acceptable total scores on the Graduate Record Exam (GRE); Verbal and Quantitative sections examined separately;
4. For those whose native language is not English a TOEFL score of at least 550 (79 for internet-based test);
5. Official transcripts from all institutions of higher education attended;
6. A current curriculum vitae or resume;
7. Three letters of reference from sources capable of commenting on the applicant’s readiness and commitment for doctoral studies. At least one, and preferably all letters should be from academic sources; other, letters must be from professional supervisors;
8. A 1500 word essay discussing the applicant’s academic and professional goals. This essay should discuss how the Ph.D. in Health Services Research program will contribute towards meeting these goals and;
9. A personal interview to discuss applicant’s research focus and fit with the program faculty’s expertise.

Prerequisite courses are necessary for students who do not have graduate preparation in basic statistics, research design, and basic computer literacy. Prerequisite courses in health delivery systems and community health may be required for students without academic preparation or experience in these areas.

Complete the application form and submit all required materials to the Office of Admissions, Old Dominion University.

Degree Requirements

1. Satisfactory completion of at least 60 semester hours of graduate level coursework, including all required courses as listed below. (Students who receive two or more grades of C+ or one grade of F may not continue in the program).

   2. Two semesters of full-time residency. These do not have to be consecutive.
   3. A health services research internship.
   4. Acceptable performance on written and oral candidacy examinations in the major field of study at the end of the program coursework. Students may re-take the candidacy exams only once.
   5. Successful defense of a dissertation proposal.
   6. Completion of a dissertation representing the candidate’s ability to conduct scholarly, original research. The quality of the research must be suitable for publication in an academic, peer-reviewed journal.
   7. Successful oral defense of the dissertation.
   8. Submission of the approved final copy of the dissertation.

Time frames for completion of degree requirement are as follows:

1. The entire process (from admission to dissertation defense) must be completed within eight years. Exceptions to this time limit require the approval of the graduate program director, the department chair, and the college dean.
2. Academic credit which is more than eight years old at the time of graduation must be re-validated by an examination before the work can be applied to a doctoral degree.
3. The dissertation must be completed within five years after the candidacy exams are passed.
4. Dissertations should be defended at least six weeks prior to the end of the semester in which the student expects to graduate.

Each student is required to have an advisory faculty member who will meet with the student after the first nine hours of coursework are complete. The faculty member, with the graduate program director, approves the student’s planned coursework (plan of study) and conducts the written and oral competency exams at the end of the coursework. Students must maintain a 3.0 grade point average.

Curriculum

The coursework consists of 12 credits of health services core courses, 18 credits of research core courses, six credits of health policy core courses and a six credit cognate area. A 1-credit colloquium is required each semester along with coursework (4 course series). Additionally students complete an internship (3 credits), a dissertation seminar (3 credits), and 12 dissertation credits. Up to 9 credit hours of coursework may be at the 600 level. Up to 12 hours of graduate credit may be transferred from another university and applied towards the Ph.D. degree. Transfer of credit is approved at the discretion of the guidance committee and the graduate program director.

The Health Services Core 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>HLSC 801</td>
<td>Introduction to Health Services</td>
</tr>
<tr>
<td>HLSC 809</td>
<td>Multidisciplinary Approaches to Health Services Research</td>
</tr>
<tr>
<td>HLSC 814</td>
<td>Theory in the Health Sciences</td>
</tr>
<tr>
<td>HLSC 864</td>
<td>Health Economics</td>
</tr>
</tbody>
</table>

Research Core 18

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>HLSC 810</td>
<td>Research Design and Application</td>
</tr>
<tr>
<td>HLSC 811</td>
<td>Quantitative Research Methods in Health Care</td>
</tr>
<tr>
<td>HLSC 812</td>
<td>Qualitative Research Methods</td>
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<tr>
<td>HLSC 813</td>
<td>Measurement of Health Phenomena</td>
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<tr>
<td>HLSC 846</td>
<td>Epidemiology</td>
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<tr>
<td>HLSC 804</td>
<td>Methods of Program Evaluation</td>
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</tbody>
</table>

Health Policy Core 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLSC 815</td>
<td>Decision Analysis in Health Care</td>
</tr>
<tr>
<td>HLSC 872</td>
<td>Policy and Politics of Health</td>
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Culminating Courses 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>HLSC 868</td>
<td>Internship in Health Sciences</td>
</tr>
<tr>
<td>HLSC 881</td>
<td>Dissertation Seminar</td>
</tr>
</tbody>
</table>

College of Health Sciences 2
Dissertation (12 credits)

The candidate’s program of study culminates in a dissertation representing an original research project which makes a real and significant contribution to health services knowledge and practice. The dissertation provides a demonstration of the student’s ability to conduct independent scholarly research in health services research. The dissertation phase begins only after all other degree requirements (coursework, candidacy exams, dissertation seminar) have been completed. Towards this end, the candidate must form a dissertation committee, compose a letter of intent for the dissertation topic and have approval by the committee, and the college human subjects committee or the ODU IRB, write and successfully defend a dissertation proposal, conduct the research necessary to complete the dissertation, write the dissertation, successfully defend the dissertation at an oral defense, make any necessary changes and submit a final approved copy. Additionally, all Ph.D. students are strongly encouraged to author at least one journal article based upon their dissertation research.

Dissertation Committee

After the candidacy exams are successfully passed, the dissertation committee is formed by the student in conjunction with, and approval by, the graduate program director. A dissertation committee must have at least three members, one of whom is from outside the department of the major field of study. The members of the dissertation committee must all hold doctorates and be graduate certified unless an exception first has been approved by the graduate program director, college dean, and appropriate VP. The committee’s purpose is to supervise the entire process from proposal writing and defense through the oral defense of the dissertation. The committee supervises and approves the choosing of a topic, the choosing of a theoretical framework, the development of the research methods, the actual conduct of the research and the writing of the results.

Dissertation Letter of Intent

A dissertation starts with a letter of intent. The student will draft a 3-5 page description of the proposed study. This letter should contain the statement of purpose of the study and a brief description of why the topic is important to health services research. The letter should also identify the theoretical framework that will be employed, as well as provide an overview of the proposed methods. Where appropriate, the letter must include an addendum that indicates the student has permission to use the proposed data source and/or access the proposed population of interest. The dissertation committee needs to unanimously approve the letter of intent in order for the student to write and defend the dissertation proposal.

Dissertation Proposal

The dissertation proposal provides a detailed explanation of the research being proposed, and should address the significance of the study, provide a substantive literature review and describe, in detail, the methods that will be used to collect data. The proposal will be defended in a public forum to which are invited all faculty, staff and students in the college. The final draft of the dissertation proposal must be available for public viewing two weeks before the defense date. No formal work should begin on the dissertation until the dissertation committee and the graduate program director unanimously approve the dissertation proposal in writing. Dissertation proposals can be defended prior to IRB approval/exemption. However, no data collection or interaction with study participants can ever begin until the dissertation chair and the student have obtained IRB approval or exemption. Approval of the dissertation proposal is NOT a pro forma activity and the student is cautioned never to regard it as such.

Dissertation and Final Oral Defense

The completion of a dissertation is the cornerstone of the Ph.D. program. Through the dissertation, candidates demonstrate that they are prepared to join the company of scholars and to be leaders in health services research. The candidate should work closely with his/her dissertation committee throughout this process. Dissertations must be continuously enrolled for a minimum of one credit hour per semester. University resources may not be used unless a candidate is officially enrolled. Advice or assistance from committee members should not be expected unless the candidate is officially enrolled.

Dissertations must be carefully prepared according to ODU guidelines using the most current version of the Guide for the Preparation of Theses and Dissertations (obtained from The Graduate School). The APA style manual should be used to cover specific questions of style. However, the requirements of the Guide for the Preparation of Theses and Dissertations take precedence over all the guidelines contained in the APA manual. All proposed dissertation research which involves human subjects must be reviewed and approved by the college or University’s Human Subjects Committee. The process and approval must be documented in the text of the dissertation. Once the dissertation is successfully defended and in its

<table>
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<tr>
<th>Total Hours</th>
<th>Dissertation</th>
<th>Cognate Courses</th>
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<tr>
<td>60</td>
<td>12</td>
<td>6</td>
</tr>
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</table>
final form, the student should ensure that five copies of the dissertation (with all necessary signatures) are given to the Office of the University Registrar for binding and sign the microfiling and copyright agreements. Students can choose to have additional copies bound for their own personal use. All dissertations will be published in Dissertation Abstracts International.

Once the dissertation committee approves that the dissertation is ready, the student works with the dissertation committee to set a defense date and to ensure that the defense date is made public. The student should provide sufficient copies of the dissertation for public viewing at least two weeks before the defense date. The defense itself needs to be publicized two weeks in advance as well. While the defense is publicized and open to the public in general, care should be taken to ensure that all college faculty and administrators and all departmental students receive invitations to the defense. The entire dissertation committee must attend the final oral dissertation defense. After the dissertation defense, the dissertation committee meets in a closed-door meeting to discuss the dissertation defense and to vote on its approval or disapproval. If the dissertation is not approved, it can be defended only once more (no sooner than three months after the initial defense). The final dissertation must be approved through a signature process that includes the dissertation chair, all members of the dissertation committee, the graduate program director and the dean of the College of Health Sciences. Note that a dissertation may be approved orally at the final defense, but may still require some editing before the final copy is approved by the committee. The Doctor of Philosophy in Health Services Research will be awarded upon the oral defense of the dissertation, the submission of the final approved copy of the dissertation and the completion of all other program requirements for graduation.

**Continuing Education Programs**

Short courses, national conferences, workshops, refresher courses, certificate programs and seminars are offered by the different schools in the college on and off campus on a noncredit continuing education (CEU) basis. Professional continuing education programs cover a wide range of topics, including environmental health, dental hygiene, dental assisting, nursing, nuclear medicine technology, health-care management, medical technology, physical therapy, community health, mental health, and chemical dependency.

Continuing education serves the following functions:

- licensure and certification for professionals and practitioners and
- credential and degree achievement and professional development to update knowledge and skills.

Clientele served by the programs include nursing and allied health professionals, human service workers, managers and supervisory personnel, technicians, laboratory personnel, and health educators.

Visit the website to view current offerings.

**HEALTH SCIENCES Courses**

**HLSC 701. Introduction to Health Services. 3 Credits.**

**HLSC 702. Health Management. 3 Credits.**

This seminar will provide students with an understanding of health care organizations and effective management. Particular attention will be given to the issues of access, cost and quality.

**HLSC 705. Interprofessional Study Abroad on Global Health. 1-3 Credits.**

This study abroad service learning course will introduce the student to the political, social, cultural, and ethical issues involved in prevention and health promotion globally. Students will travel another country and learn the incidence/prevalence, morbidity/mortality, and identified public health problems in specific regions and countries.

**HLSC 709. Multidisciplinary Approach to Health Services Research. 3 Credits.**

**HLSC 710. Research Design and Application. 3 Credits.**

**HLSC 712. Qualitative Research Methods. 3 Credits.**

**HLSC 713. Measurement of Health Phenomena. 3 Credits.**

An overview of measurement theory with emphasis on the development, testing, and refinement of norm- and criterion-referenced data collection instruments for health-related research.

**HLSC 714. Theory in the Health Sciences. 3 Credits.**

**HLSC 746. Epidemiology. 3 Credits.**

This course examines epidemiology as a method for viewing inborn community health problems and as a body of knowledge derived from this method. Skills in using epidemiology as a method and as knowledge to solve community health problems will be included.

**HLSC 764. Health Economics. 3 Credits.**

Lecture 3 hours; 3 credits. This course describes the application of economic tools to analyze the operation of markets for health care and insurance. Topics covered include the consumption and costs of health care in the United States, the viewpoints of players in the health care market, and an overview of both supply and demand analysis and cost effectiveness analysis. Complexities of economics unique to health care will be detailed. Further, students will employ these principles in several case studies of current and classic issues in health economics. (Cross-listed with CHP 764).

**HLSC 768. Practicum in Global Health. 2 Credits.**

Global health related field placement (112 hours).

**HLSC 772. Policy and Politics of Health. 3 Credits.**

This course enables the student to develop a systematic and analytical framework for understanding health care policy issues. The policy process is covered in detail. Timely policy issues also are discussed.

**HLSC 776. Global Health. 3 Credits.**

This course will introduce the student to the political, social, cultural and ethical issues involved in disease prevention and health promotion globally. Specific emphasis will be on incidence/prevalence, morbidity/mortality, and identified health problems in specific regions and countries. This course will also identify international health prerogatives aimed at improving health status through education and intervention.

**HLSC 778. Global Environmental Health. 2-3 Credits.**

The goal of this course is to guide students with a public health perspective to develop skills to identify and analyze environmental health problems globally. It is designed to provide knowledge on recognizing and evaluating major environmental health issues and risk factors in developed and developing countries by using group discussions and real-life case studies.

**HLSC 780. Monitoring & Evaluating Global Health Programs. 2 Credits.**

This course familiarizes students with the basic concepts, issues, theories, approaches and models in evaluation in a global public health context. Students in this course will begin to develop technical skills to conceptualize and design evaluations of global public health programs or projects. These practices include determining which evaluation approach to use in a given context, developing an evaluation plan and appropriate evaluation questions, determining the data needed to answer the evaluation questions and establishing reporting processes to provide information to program developers.

**HLSC 782. One Health, One Medicine. 2 Credits.**

This course will teach students the applications of multidisciplinary competencies towards solving human health challenges. The course will identify all areas of global health issues that require human, veterinary and environmental applications for solutions. One Health One Medicine is an important course for all students in Health or Environmental Sciences that are called upon to integrate multidisciplinary competencies as part of their education and career experiences.
HLSC 784. Key Competencies for Co-creating Sustainable Futures. 2 Credits.
This course is based in an ongoing NSF sponsored research project called the Sustainable Futures Protocol (SFP), which seeks to define and develop the key individual and collective competencies for collaboratively generating sustainable futures across global societies. This course will explore the quantitative and qualitative research on collaborative leadership and action that best addresses the challenges of climate change mitigation, adaptation, and justice as they relate to global public health.

HLSC 785. Issues and Opportunities in Global Health Research. 2 Credits.
This course focuses on global health research with an emphasis on cultural, political and economic influences on health in various regions and provides students opportunities to engage in inter-professional teamwork to brainstorm problem-based issues and establish research proposals.

HLSC 795. Topics in Health Sciences. 1-3 Credits.
Lecture, 1-3 hours; 1-3 credits. Designed to provide the advanced student with an opportunity to study independently or in small groups and investigate specific topics of current interest in health services or health sciences.

HLSC 798. Supervised Research. 1-6 Credits.
Supervised research on a specialized topic. Can be repeated.

HLSC 801. Introduction to Health Services. 3 Credits.
Lecture 3 hours; 3 credits. Focuses on the complexities involved in providing health services to populations. Presents issues related to public health, community health, urban and rural health, healthy people/communities and health care delivery in traditional and non-traditional settings.

HLSC 802. Health Management. 3 Credits.
This seminar will provide students with an understanding of health care organizations and effective management. Particular attention will be given to the issues of access, cost and quality.

HLSC 804. Methods of Program Evaluation. 3 Credits.
Lecture 3 hours; 3 credits. Prerequisite: HLSC 810 or PAUP 853. Departmental approval required. Examination of various methodologies for designing and conducting public health program evaluation and research. Experimental, quasi-experimental and non-experimental procedures will be covered.

HLSC 805. Interprofessional Study Abroad on Global Health. 1-3 Credits.
This study abroad service learning course will introduce the student to the political, social, cultural, and ethical issues involved in prevention and health promotion globally. Students will travel another country and learn the incidence/prevalence, morbidity/mortality, and identified public health problems in specific regions and countries.

HLSC 809. Multidisciplinary Approaches to Health Services Research. 3 Credits.
Lecture 3 hours; 3 credits. Uses theory and research findings from areas such as Biology, Psychology, Sociology, Economics, Urban Studies, and Health Services to achieve an understanding of health services issues and problems. Emphasizes methods of analysis and of developing alternatives related to multidisciplinary perspectives.

HLSC 810. Research Design and Application. 3 Credits.
Lecture 3 hours; 3 credits. Prerequisite: graduate-level courses in research design and statistics or permission of the instructor. Emphasis is on exploring the advantages/disadvantages and uses of non-experimental, quasi-experimental, and experimental designs in health-related research with application to management, education, and clinical practice. (cross-listed with PT 810).

HLSC 811. Quantitative Research Methods in Health Care. 3 Credits.
An applied approach to the selection and application of bivariate and multivariate statistical techniques in health services research. Emphasis is placed on handling large data sets and the use of a computer for manipulation of quantitative data. Pre- or corequisite: HLSC 710 or HLSC 810.

HLSC 812. Qualitative Research Methods. 3 Credits.
Lecture 3 hours; 3 credits. An exploration of qualitative research methods including participant observation, ethnography and the generation of grounded theory. Individual interviews and focus group methods will be covered and historical, content analysis, phenomenological and montage approaches will also be discussed. Health related examples of published research in a variety of fields will be utilized to exemplify the methods.

HLSC 813. Measurement of Health Phenomena. 3 Credits.
An overview of measurement theory with emphasis on the development, testing, and refinement of norm- and criterion-referenced data collection instruments for health-related research. Prerequisites: graduate-level courses in research design and statistics or permission of the instructor.

HLSC 814. Theory in the Health Sciences. 3 Credits.
Lecture 3 hours; 3 credits. Introduces the philosophy of science by studying the nature and purposes of theory for the health sciences. Standards for evaluation of theories will be described. Selected theories and supporting research from the health services literature will be discussed and critically evaluated.

HLSC 815. Decision Analysis in Health Care. 3 Credits.
Lecture 3 hours; 3 credits. This course teaches students the art and science of decision making. It covers expected utility theory, decision tree analysis, cost-benefit analysis, and the psychological aspects of the decision-making process in the context of health policy research.

HLSC 820. Health Care Delivery System. 3 Credits.
Lecture 3 hours; 3 credits. This course provides the student with an opportunity to analyze the American health care system. The health care system is composed of complex organizational dynamics and structures which predicate the interaction between the major components of the system: personnel who provide service; institutions in which care is provided; financing mechanisms which pay for care; and the government which attempts to regulate it. This course is designed for in-depth analysis and synthesis of all aspects of health care delivery with an emphasis on improving the delivery and access to care.

HLSC 846. Epidemiology. 3 Credits.
This course examines epidemiology as a method for viewing inborn community health problems and as a body of knowledge derived from this method. Skills in using epidemiology as a method and as knowledge to solve community health problems will be included.

HLSC 864. Health Economics. 3 Credits.
Lecture 3 hours; 3 credits. This course describes the application of economic tools to analyze the operation of markets for health care and insurance. Topics covered include the consumption and costs of health care in the United States, the viewpoints of players in the health care market, and an overview of both supply and demand analysis and cost effectiveness analysis. Complexities of economics unique to health care will be detailed. Further, students will employ these principles in several case studies of current and classic issues in health economics. (Cross-listed with CHP 764).

HLSC 868. Internship in Health Sciences. 3 Credits.
3 credits. Supervised health services field experiences or health sciences laboratory experiences. A completed research project which is publishable or presentable at a professional conference is required to complete the course.

HLSC 872. Policy and Politics of Health. 3 Credits.
This course enables the student to develop a systematic and analytical framework for understanding health care policy issues. The policy process is covered in detail. Timely policy issues are also discussed.

HLSC 873. Development of Grants and Contracts in the Health Professions. 3 Credits.
Lecture 3 hours; 3 credits. Designed as a “hand-on” approach in effective grantmanship, this course will guide the student from the identification of potential funding sources through proposal development. Highlights include program planning, nonprofit status, governmental/foundation corporate trends, local resources and grants administration.
**HLSC 875. Comprehensive Health Planning. 3 Credits.**
Lecture 3 hours; 3 credits. This course emphasizes the principles and processes of program planning, including a consideration of objectives, priorities, policy choices, assessment of resources, implementation, and evaluation. The student will gain practical experience in program development by developing a planning document.

**HLSC 876. Global Health. 3 Credits.**
This course will introduce the student to the political, social, cultural and ethical issues involved in disease prevention and health promotion globally. Specific emphasis will be on incidence/prevalence, morbidity/mortality, and identified health problems in specific regions and countries. This course will also identify international health prerogatives aimed at improving health status through education and intervention.

**HLSC 881. Dissertation Seminar. 3 Credits.**
3 credits. This course will assist students in developing a dissertation proposal. Steps in the research process will be reviewed as students submit drafts of their proposal for faculty and peer review. Problem formulation, integrating theoretical frameworks, preparing for human subjects review and outlining data analysis techniques for hypothesis testing will be discussed. Students will be introduced to University guidelines related to dissertations and other resources to assist them in their task.

**HLSC 889. Colloquium I. 1 Credit.**
Lecture 1 hour; 1 credit. Grading: Pass/Fail.

**HLSC 890. Colloquium II. 1 Credit.**
Lecture 1 hour; 1 credit. Grading: Pass/Fail.

**HLSC 891. Colloquium III. 1 Credit.**
1 credit. This course is the third in a series of colloquial courses in which doctoral level students receive presentations and present research and current topics of interest in health related professions.

**HLSC 892. Colloquium IV. 1 Credit.**
1 credit. This course is the fourth in a series of colloquial courses in which doctoral level students receive presentations and present research and current topics of interest in health related professions.

**HLSC 893. Colloquium V. 1 Credit.**
This is the fifth in a series of colloquial courses in which doctoral level students receive presentations and present research and current topics of interest in health related professions.

**HLSC 894. Colloquium VI. 1 Credit.**
1 credit. This is the sixth in a series of colloquial courses in which doctoral level students receive presentations and present research and current topics of interest in health related professions.

**HLSC 895. Topics in Health Sciences. 1-3 Credits.**
Designed to provide the advanced student with an opportunity to study independently or in small groups and investigate specific topics of current interest in health services. Prerequisites: Ph.D. standing or permission of the graduate program director.

**HLSC 897. Independent Study. 1-3 Credits.**
Individualized study selected by the student in collaboration with a faculty member. Area of study to be supervised and approved by a faculty member with the approval of the graduate program director. Prerequisites: Admission to Health Services PhD program and permission of graduate program director.

**HLSC 898. Supervised Research. 1-6 Credits.**
Supervised research on a specialized topic. Can be repeated.

**HLSC 899. Dissertation. 1-12 Credits.**
1-12 credits. Available for pass/fail grading only. An approved research project written under the supervision of a faculty advisor, in which the student demonstrates the capacity to design and complete independent applied research. The completed project must be approved by the dissertation committee.

**HLSC 999. Doctoral Graduate Credit. 1 Credit.**
This course is a pass/fail course doctoral students may take to maintain active status after successfully passing the candidacy examination. All doctoral students are required to be registered for at least one graduate credit hour every semester until their graduation.